BRUHATH BENGALURU MAHANAGARA PALIKE

EMB

FIRST AND FINAL BILL

NAME OF WORK: CONSTRUCTION OF ADDITIONAL CLASS ROOMS AT GOVT. PRIMARY SCHOOL AT WARD NO 01, BBMP, BANGALORE.

BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	1						
Item Name:	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2023-24, Volume-I, Item No.1.5.1, Page No.6)						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 09.03.2024, 10.03.2024							
For Footing Area							
		14	2.20	2.20	1.60	108.42	
For Foundation Area							
	Long Wall	2	19.80	1.10	1.00	43.56	
	Short Wall	6	4.60	1.10	1.00	30.36	
Site Area Cleaning		1	20.00	6.00	0.30	36.00	
					Total Quantity	218.34	Cum
					Quantity Carried to Summary	181.69	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	2	
Item Name:	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications. (KPWD SR 2023-24, V-2, Item No.4.1, Page No.5)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			20.04.2024				
For Footing Area							
		14	2.20	2.20		67.76	
For Foundation Area							
	Long Wall	2	19.80	1.10		43.56	
	Short Wall	6	4.60	1.10		30.36	
		1	19.80	1.20		23.76	
					Total Quantity	165.44	Cum
					Quantity Carried to Summary	143.10	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	2	
Item Name:	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications. (KPWD SR 2023-24, V-2, Item No.4.1, Page No.5)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
	Measurement Recorded On:		20.04.2024.				
For Footing Area							
		14	2.20	2.20		67.76	
For Foundation Area							
	Long Wall	2	19.80	1.10		43.56	
	Short Wall	6	4.60	1.10		30.36	
		1	19.80	1.20		23.76	
					Total Quantity	165.44	Cum
					Quantity Carried to Summary	143.10	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Naine of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	3	21
Item Name:	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications. (KPWD SR 2023-24, V-I, Item No.1.23, Page No.11)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			22.04.2024				
For Footing Area		14	2.20	2.20	0.30	20.33	
For Foundation Area							
	Long Wall	2	19.80	1.10	0.15	6.53	
	Short Wall	6	4.60	1.10	0.15	4.55	
		1	19.80	1.20	0.15	3.56	
					Total Quantity	34.98	Cum
					Quantity Carried to Summary	32.09	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	4						
Item Name:	Providing and laying in position plain cement concrete Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (KPWD SR 2023-24, V-I, Item No.2.1.3, Page No.15)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
	Measurement Recorded On:		28.03.2024				
	For Footing Area						
		14	2.20	2.20	0.15	10.16	
	For Foundation Area						
	Long Wall	2	19.80	1.10	0.15	6.53	
	Short Wall	6	4.60	1.10	0.15	4.55	
		1	19.80	1.20	0.15	3.56	
	Class Room 1	1	6.80	4.50	0.15	4.59	
	Class Room 2	1	6.80	4.50	0.15	4.59	
	Gents Toilet	1	1.50	4.50	0.10	0.68	
	Ladies Toilet	1	1.76	4.50	0.10	0.79	
	Total Quantity					**35.46**	**Cum**
	Quantity Carried to Summary					**35.02**	**Cum**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	5	
Item Name:	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KPWD SR 2023-24, V-II, Item No.5.4, Page No.9)	

Measurement Recorded On: 19.04.2024

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
For Foundation Area							
	1st Coarse						
	Long Wall	2	19.80	0.90	0.40	14.26	
	Short Wall	6	4.60	0.90	0.40	9.94	
	2nd Coarse						
	Long Wall	2	19.80	0.75	0.40	11.88	
	Short Wall	6	4.60	0.75	0.40	8.28	
	3rd Coarse						
	Long Wall	2	19.80	0.45	0.40	7.13	
	Short Wall	6	4.60	0.45	0.40	4.97	
					Total Quantity	56.45	Cum
					Quantity Carried to Summary	53.53	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	6							
Item Name:	Providing and laying in position Cement Concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.2.3 Page No.15)							
SL NO	**CHAINAGE**		**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On: 26.03.2024								
For Footing Area								
			14	2.10	2.10	0.45	27.78	
						Total Quantity	**27.78**	**Cum**
						Quantity Carried to Summary	**26.73**	**Cum**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	7	
Item Name:	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.4.3 Page No.16)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 19.04.2024.							
For Pedestal Area							
		14	0.45	0.30	0.90	1.70	
					Total Quantity	1.70	Cum
					Quantity Carried to Summary	1.26	Cum

Remarks received

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	8	
Item Name:	Providing and laying in Cement Concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.3.2 Page No.16)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			29.04.2024.				
For Plinth Beam							
	Long Wall	2	19.80	0.45	0.20	3.56	
	Short Wall	6	4.60	0.45	0.20	2.48	
	Corrider Area	1	20.00	1.20	0.15	3.60	
					Total Quantity	9.65	Cum
					Quantity Carried to Summary	8.34	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	9	
Item Name:	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 08.05.2024.							
For Column Above							
		14	0.25	0.45	3.00	4.73	
					Total Quantity	4.73	Cum
					Quantity Carried to Summary	3.60	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	10	
Item Name:	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			14.05.2024, 21.06.2024.				
For Lintel Beam							
	Long Wall	2	19.80	0.20	0.15	1.19	
	Short Wall	6	4.60	0.20	0.15	0.83	
For Beam							
	Long Wall	2	19.80	0.30	0.45	5.35	
	Short Wall	6	5.80	0.30	0.45	4.70	
					Total Quantity	**12.06**	**Cum**
					Quantity Carried to Summary	**11.83**	**Cum**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

1st and Final

Item No.	11	
Item Name:	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD SR 2023-24, V-I, Item No.2.5.2 Page No.16)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 21.06.2024.							
For Roof Slab		1	20.00	6.00	0.15	18.00	
For StairCase							
	Waist Slab	1	3.60	1.20	0.15	0.65	
		1	2.10	1.20	0.15	0.38	
	Steps	19	1.10	0.075		2.88	
	Landing	1	2.40	1.25	0.15	0.45	
	Deduction Area	-1	2.20	2.00	0.15	-0.66	
					Total Quantity	21.70	Cum
					Quantity Carried to Summary	21.70	Cum

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Pre-Measurement Sheet

Item No. 12 — 20.03.2024, 29.04.2024, 24.05.2024.

Item Name: Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification. (KPWD SR 2023-24, V-I, Item No.2.11(a), Page No.18)

Sl no	Dia of Bar in mm	Side	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in kgs	Weight of Steel in kgs	Remarks
For Footing										
For Footing F1										
1	16	28	150mm/CC	12	1.80	604.8	Distribution	1.58	955.6	
2	12	28	100mm/CC	18	1.80	907.2	Main Bar	0.89	807.4	
For Pedestal										
1	12	14		8	5.20	582.4	Distribution	0.89	518.3	
2	8	14	100mm/CC	52	1.45	1055.6	Ring Bar	0.39	411.7	
For Plinth Beams										
For Long Wall										
1	12	2		8	20.00	320.0	Distribution	0.89	284.8	
2	8	2	125mm/CC	160	1.40	448.0	Ring Bar	0.39	174.7	
For Short Wall										
1	12	6		8	4.50	216.0	Distribution	0.89	192.2	
2	8	6	125mm/CC	36	1.40	302.4	Ring Bar	0.39	117.9	
For Columns										
1	12	14		6	3.50	294.0	Distribution	0.89	261.7	
2	8	14	100mm/CC	35	1.45	710.5	Ring Bar	0.39	277.1	
For Lintel										
For Long Wall										
1	10	2		6	20.00	240.0	Distribution	0.62	148.8	
2	8	2	100mm/CC	200	0.75	300.0	Ring Bar	0.39	117.0	
For Short Wall										
1	10	6		6	4.50	162.0	Distribution	0.62	100.4	
2	8	6	100mm/CC	45	0.75	202.5	Ring Bar	0.39	79.0	
For Beams										
For Long Wall										
1	16	2		8	20.00	320.0	Distribution	1.58	505.6	
2	8	2	100mm/CC	200	1.40	560.0	Ring Bar	0.39	218.4	
For Short Wall										
1	16	6		8	5.80	278.4	Distribution	1.58	439.9	
2	8	6	100mm/CC	58	1.40	487.2	Ring Bar	0.39	190.0	
For Staircase										
Waist Slab										
1	10	2	125mm/CC	10	4.20	80.6	Distribution	0.62	50.0	
2	12	2	100mm/CC	42	1.20	100.8	Main Bar	0.89	89.7	
1	10	2	125mm/CC	29	2.10	121.0	Distribution	0.39	47.2	
2	12	2	100mm/CC	21	3.60	151.2	Main Bar	0.62	93.7	
Landing										
1	10	2	125mm/CC	10	2.40	48.0	Distribution	0.62	29.8	
2	12	2	100mm/CC	24	1.25	60.0	Main Bar	0.89	53.4	

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					For Roofsalb					
1	10	2	100mm/CC	60	20.00	2400.0	Distribution	0.89	2136.0	
2	16	2	150mm/CC	133	6.00	1600.0	Main Bar	1.58	2528.0	
								Total Quantity of Steel in Kg's	**10828.35**	**kgs**
								Qty Payable in this bill	**10828.35**	**Kgs**
								Total Quantity of Steel in Tonne	**10.83**	**Tonne**
								Qty Payable in this bill	**10.74**	**Tonne**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	13	01
Item Name:	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KPWD SR 2023-24, V-II, Item No.6.32, Page No.17)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:		01.06.2024					
8" Blocks							
Class Room 1		2	6.80		2.70	36.72	
		2	4.50		2.70	24.30	
Class Room 2		2	6.80		2.70	36.72	
		2	4.50		2.70	24.30	
Deductions							
	Door	-2	1.05		2.10	-4.41	
	Window W1	-6	1.55		1.30	-12.09	
	Ventilators V1	-2	0.65		0.65	-0.85	
					Total Quantity	104.70	Sqm
					Quantity Carried to Summary	104.70	Sqm

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	14	
Item Name:	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KPWD SR 2023-24, V-II, Item No.6.33, Page No.17)	

Measurement Recorded On: 02.06.2024

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
	Gents Toilet						
		1	4.50		2.70	12.15	
	Ladies Toilet						
		1	4.50		2.70	12.15	
	Stair Case Wall	1	2.40		2.70	6.48	
	Gents Toilet	2	1.50		2.70	8.10	
	Ladies Toilet	1	1.76		2.70	4.75	
	Deductions						
	Ventilators WR	-2	0.65		0.65	-0.85	
					Total Quantity	**42.79**	**Sqm**
					Quantity Carried to Summary	**36.72**	**Sqm**

Executive Engineer
Yelahanka Division
B.B.M.P Bangalore-64

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Asstistant Engineer
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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	15	
Item Name:	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KPWD SR 2023-24, V-II, Item No.6.34, Page No.17)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
	Measurement Recorded On: 02.06.2024						
	Gents Toilet	2	1.50		2.70	8.10	
	Ladies Toilet	2	1.76		2.70	9.50	
	Deductions						
	Door D1	-4	0.75		2.10	-6.30	
					Total Quantity	**11.30**	**Sqm**
					Quantity Carried to Summary	**11.30**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	16	
Item Name:	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.3.1, Page No.41)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			10.06.2024				
Outside Plastering							
		2	20.00		3.00	120.00	
		4	4.50		3.00	54.00	
Deductions							
	Door	-2	1.05		2.10	-4.41	
	Window W1	-6	1.55		1.30	-12.09	
	Ventilators V1	-2	0.65		0.65	-0.85	
	Staircase	-1	2.40		3.00	-7.20	
					Total Quantity	149.46	Sqm
					Quantity Carried to Summary	149.46	Sqm

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	17						
Item Name:	Providing 15 mm cement plaster with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V. II, Item No.8.7, Page No.42)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:			10.06.2024				
Inside Plastering							
Class Room 1		2	6.80		3.00	40.80	
		2	4.50		3.00	27.00	
Class Room 2		2	6.80		3.00	40.80	
Gents Toilet		2	4.50		3.00	27.00	
		2	1.50		3.00	9.00	
		1	4.50		3.00	13.50	
Ladies Toilet		2	1.76		3.00	10.56	
		1	4.50		3.00	13.50	
Stair Case Wall		1	2.40		3.00	7.20	
Gents Toilet		2	1.50		3.00	9.00	
Ladies Toilet		1	1.76		3.00	5.28	
Deductions							
Door		-2	1.05		2.10	-4.41	
Door D1		-4	-0.75		2.10	6.30	
Window W1		-6	1.55		1.30	-12.09	
Ventilators V1		-2	0.65		0.65	-0.85	
Total Quantity						**192.60**	**Sqm**
Quantity Carried to Summary						**192.60**	**Sqm**

Ramasanjeeva L

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	18	
Item Name:	Providing 12 mm cement plaster with cement mortar 1:6 (1 cement:6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.1.2, Page No.41)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 10.06.2024.							
For Ceiling							
Class Room 1		1	6.80	4.50		30.60	
Class Room 2		1	6.80	4.50		30.60	
Gents Toilet		1	1.50	4.50		6.75	
Ladies Toilet		1	1.76	4.50		7.92	
Corrider		1	20.00	1.20		24.00	
					Total Quantity	99.87	Sqm
					Quantity Carried to Summary	99.87	Sqm

Asstistant Engineer
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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	19						
Item Name:	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.. (KPWD SR 2023-24, V-II, Item No.8.51, Page No.50)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:			12.06.2024				
Outside Putty							
		2	20.00		3.00	120.00	
		4	4.50		3.00	54.00	
Deductions							
	Door	-2	1.05		2.10	-4.41	
	Window W1	-6	1.55		1.30	-12.09	
	Ventilators V1	-2	0.65		0.65	-0.85	
	Staircase	-1	2.40		3.00	-7.20	
Internal Putty							
Class Room 1		2	6.80		3.00	40.80	
		2	4.50		3.00	27.00	
Class Room 2		2	6.80		3.00	40.80	
		2	4.50		3.00	27.00	
		2	1.50		3.00	9.00	
		1	4.50		3.00	13.50	
Ladies Toilet		2	1.76		3.00	10.56	
		2	4.50		3.00	27.00	
Stair Case Wall		2	2.40		3.00	14.40	
		2	1.50		3.00	9.00	
Ladies Toilet		1	1.76		3.00	5.28	
Deductions							
	Door	-2	1.05		2.10	-4.41	
	Door D1	-4	-0.75		2.10	6.30	
	Window W1	-6	1.55		1.30	-12.09	
	Ventilators V1	-2	0.65		0.65	-0.85	
For Ceiling							
Class Room 1		1	6.80	4.50		30.60	
Class Room 2		1	6.80	4.50		30.60	

Asst. Executive Engineer
Yelahanka Sub. Divisor
(BBMP Ynk. Zn)
Yelahanka, Bangalore

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Gents Toilet		1	1.50	4.50		6.75	
Ladies Toilet		1	1.76	4.50		7.92	
Corrider		1	20.00	1.20		24.00	
					Total Quantity	462.62	Sqm
					Quantity Carried to Summary	461.86	Sqm

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	20	
Item Name:	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.27, Page No.45)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			14.06.2024.				
Outside Plastering							
		2	20.00		3.00	120.00	
		4	4.50		3.00	54.00	
Deductions							
Door		-2	1.05		2.10	-4.41	
Window W1		-6	1.55		1.30	-12.09	
Ventilators V1		-2	0.65		0.65	-0.85	
Total Quantity						**156.66**	**Sqm**
Quantity Carried to Summary						**156.66**	**Sqm**

Ramadamgeeval,
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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	21	
Item Name:	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 L/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.29, Page No.45)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18.06.2024				
Outside Plastering							
		2	20.00		3.00	120.00	
		4	4.50		3.00	54.00	
Deductions							
Door		-2	1.05		2.10	-4.41	
Window W1		-6	1.55		1.30	-12.09	
Ventilators V1		-2	0.65		0.65	-0.85	
Total Quantity						**156.66**	**Sqm**
Quantity Carried to Summary						**156.66**	**Sqm**

Asst. Executive Engineer
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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	22	
Item Name:	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 L/10 m^2 over and including one coat of Special primer applied @ 0.75 L/10 m^2 with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (The gloss should be 50% @ 60 degree angle with 10 years life) (KPWD SR 2023-24, V-II, Item No.8.33.1, Page No.46)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18.06.2024.				
Internal Painting							
Class Room 1		2	6.80		3.00	40.80	
		2	4.50		3.00	27.00	
Class Room 2		2	6.80		3.00	40.80	
		2	4.50		3.00	27.00	
Gents Toilet		2	1.50		3.00	9.00	
		1	4.50		3.00	13.50	
Ladies Toilet		2	1.76		3.00	10.56	
		1	4.50		3.00	13.50	
Stair Case Wall		1	2.40		3.00	7.20	
Gents Toilet		2	1.50		3.00	9.00	
Ladies Toilet		1	1.76		3.00	5.28	
Deductions							
Door		-2	1.05		2.10	-4.41	
Door D1		-4	-0.75		2.10	6.30	
Window W1		-6	1.55		1.30	-12.09	
Ventilators V1		-2	0.65		0.65	-0.85	
For Ceiling							
Class Room 1		1	6.80	4.50		30.60	
Class Room 2		1	6.80	4.50		30.60	

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Yelahanka, Bangalore

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Gents Toilet		2	1.50	4.50		13.50	
Ladies Toilet		1	1.76	4.50		7.92	
Corrider		1	20.00	1.20		24.00	
					Total Quantity	299.22	Sqm
					Quantity Carried to Summary	298.22	Sqm

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	23	
Item Name:	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2 including pointing in white cement mixed with pigment of matching shade complete. (KPWD SR 2023-24, V-II, Item No.9.10, Page No.60)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			05.07.2024				
For Flooring							
Gents Toilet	WC	1	1.50	1.50		2.25	
		1	1.50	2.80		4.20	
Ladies Toilet	WC	1	1.50	1.50		2.25	
		1	1.50	1.76		2.64	
For Cladding							
Gents Toilet	WC	4	1.50		2.10	12.60	
		2	1.50		2.10	6.30	
		2	2.80		2.10	11.76	
Ladies Toilet	WC	4	1.50		2.10	12.60	
		2	1.50		2.10	6.30	
		2	1.76		2.10	7.39	
Deductions							
Door		-4	0.75		2.10	-6.30	
					Total Quantity	**61.99**	**Sqm**
					Quantity Carried to Summary	**58.84**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	24	
Item Name:	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed , including cost of materials, mortar, labour, curing complete as per specifications. (KPWD SR 2023-24, V-II, Item No.9.30, Page No.64)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			08-07-2024				
Granite Flooring							
	Class Room 1	1	6.80	4.50		30.60	
	Class Room 2	1	6.80	4.50		30.60	
	Corrider Floor	1	20.00	1.20		24.00	
	Stair Case Area	1	4.50	2.20		9.90	
For Skriting							
	Class Room 1	1	10.30		0.15	1.55	
		1	11.30		0.15	1.70	
	Class Room 2	1	10.30		0.15	1.55	
		1	11.30		0.15	1.70	
	Corrider Floor	1	12.00		0.15	1.80	
	Stair Case Area	2	6.80		0.15	2.04	
For Steps							
	Rise	19	0.13	1.10		2.72	
	Thread	19	0.25	1.10		5.23	
	Landing	1	2.40	1.25		3.00	
					Total Quantity	**116.36**	**Sqm**
					Quantity Carried to Summary	**116.36**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	25						
Item Name:	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc. (KPWD SR 2023-24, V-II, Item No.11.34(B), Page No.86)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On: 03.06.2024							
Grill Work							
	Window W1	6	1.55		1.30	12.09	
	Ventilators V1	2	0.65		0.65	0.85	
						12.94	
			Consider 45Kg/Sqm			582.08	
					Total Quantity	**582.08**	**Kgs**
					Quantity Carried to Summary	**582.08**	**Kgs**

526.50

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	26	
Item Name:	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (KPWD SR 2023-24, V-II, Item No.12.90, Page No.110)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			08.06.2024				
Class Room 1							
	Windows W1	3	1.55		1.30	6.05	
Class Room 2							
	Windows W1	3	1.55		1.30	6.05	
					Total Quantity	12.09	Sqm
					Quantity Carried to Summary	10.80	Sqm

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	27	
Item Name:	Providing & fixing of louvered ventilator made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2 (Titan um Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made) (KPWD SR 2023-24, V-II, Item No.12.85, Page No.109)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			08 06 2024				
	Ventilator	2	0.65		0.65	0.85	
					Total Quantity	0.85	Sqm
					Quantity Carried to Summary	0.85	Sqm

Asstistant Engineer
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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	28						
Item Name:	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (KPWD SR 2023-24, V-II, Item No.12.11, Page No.99)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:			14.05.2024.				
	Door D	2	6.20	0.10	0.10	0.12	
					Total Quantity	**0.12**	**Cum**
					Quantity Carried to Summary	**0.12**	**Cum**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	29						
Item Name:	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (KPWD SR 2023-24, V-II, Item No.12.15, Page No.100)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On: 08.06.2024							
	Door D	2	1.00		2.10	4.20	
					Total Quantity	**4.20**	**Sqm**
					Quantity Carried to Summary	**4.20**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	29						
Item Name:	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (KPWD SR 2023-24, V-II, Item No.12.15, Page No.100)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:			08.06.2024				
	Door D	2	1.00		2.10	4.20	
					Total Quantity	**4.20**	**Sqm**
					Quantity Carried to Summary	**4.20**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	30						
Item Name:	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @0.75 L/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.2, Page No.46)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On: 09.06.2024							
	Door D	4	1.00		2.10	8.40	
					Total Quantity	**8.40**	**Sqm**
					Quantity Carried to Summary	**8.40**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	31							
Item Name:	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90L/10 m² over an under coat of primer applied @ 0.80 L/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.8.33.3, Page No.47)							
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On: 09.06.2024							
	Door D	4	1.00		2.10	8.40	
					Total Quantity	**8.40**	**Sqm**
					Quantity Carried to Summary	**8.40**	**Sqm**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	32	
Item Name:	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. (KPWD SR 2023-24, V-II, Item No.12.54, Page No.104)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			09.06.2024				
						11.40	
	Door D2	2	5.70				
					Total Quantity	11.40	Sqm
					Quantity Carried to Summary	11.40	Sqm

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	33	
Item Name:	Providing & fixing 30mm thick factory made rigid foam Prelam Panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for stiles and 15x15mm for top & bottom rails, covered with heat moulded Prelaminated PVC C Channel of 5mm thick sheet & 30x50mm wide to form stiles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, Sealed to the stiles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm Aluminium hinges. do- with both side prelam (KPWD SR 2023-24, V-II, Item No.12.55.1, Page No.104)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 09.06.2024.							
	Door D2	2	0.75		2.10	3.15	
					Total Quantity	3.15	Sqm
					Quantity Carried to Summary	3.15	Sqm

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	34	
Item Name:	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification. -do- 35 mm thick both side commercial (KPWD SR 2023-24, V-II, Item No.12.57.6, Page No.105)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On: 09.06.2024							
	Door D1	2	0.75		2.10	3.15	
					Total Quantity	3.15	Sqm
					Quantity Carried to Summary	3.15	Sqm

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	35	
Item Name:	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (KPWD SR 2023-24, V-II, Item No.11.28, Page No.85)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			22.07.2024				
Waist Slab 1		1	3.60		1.10	3.96	
Waist Slab 2		1	2.10		1.10	2.31	
						6.27	
			Consider 14.1Kg/Sqm			88.41	
					Total Quantity	88.41	Kgs
					Quantity Carried to Summary	88.41	Kgs

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	36	
Item Name:	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2023-24 Page-2, Item-1.1.2)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			23.05.2024				
		1	6.60			6.60	
		1	4.20			4.20	
		2	4.00			8.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
		1	3.00			3.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
					Total Quantity	60.60	Mtr
					Quantity Carried to Summary	60.00	Mtr

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	37	
Item Name:	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2023-24 Page-2, Item-1.2.2)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			23.05.2024.				
		1	6.60			6.60	
		1	4.20			4.20	
		2	4.00			8.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
		1	3.00			3.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
					Total Quantity	60.60	Mtr
					Quantity Carried to Summary	60.00	Mtr

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	38	
Item Name:	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2023-24 Page-2, Item-1.3.2)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			29.06.2024				
		1	6.60			6.60	
		1	4.20			4.20	
		2	4.00			8.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
		1	3.00			3.00	
		1	6.80			6.80	
		2	4.00			8.00	
		1	2.00			2.00	
		1	2.60			2.60	
					Total Quantity	60.60	Mtr
					Quantity Carried to Summary	60.00	Mtr

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	39							
Item Name:	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2023-24 Page-1, Item-1.4)							
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**	
Measurement Recorded On:			10.06.2024					
		15				15.00		
Total Quantity						**15.00**	**Each**	
Quantity Carried to Summary						**15.00**	**Each**	

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	40	
Item Name:	d)180x90x65mm	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			11.06.2024				
		15				15.00	
					Total Quantity	15.00	Each
					Quantity Carried to Summary	15.00	Each

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	41	
Item Name:	e)200x90x65mm	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			12.06.2024				
		15				15.00	
					Total Quantity	15.00	Each
					Quantity Carried to Summary	15.00	Each

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	42	
Item Name:	Supplying and fixing PVC/metal conduit accessories.(3/5) b)25mm junction box (ELE SR 2023-24 Page-3, Item-1.5)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13.06.2024				
		10				10.00	
					Total Quantity	10.00	Each
					Quantity Carried to Summary	10.00	Each

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	43							
Item Name:	c) 32mm deep junction box							
SL NO	**CHAINAGE**		**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:				13.06.2024				
Junction Box								
			10				10.00	
						Total Quantity	**10.00**	**Each**
						Quantity Carried to Summary	**10.00**	**Each**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	44	
Item Name:	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete. a)12"x"12"x3" (330x300x76mm) (ELE SR 2023-24 Page-3, Item-1.6)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13.06.2024				
		1	10.00			10.00	
					Total Quantity	10.00	Mtrs
					Quantity Carried to Summary	10.00	Mtrs

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	45						
Item Name:	b)12"x9"x3" (300x228x76)						
SL NO	**CHAINAGE**	**NO**	**L (m)**	**Avg B (m)**	**Avg D (m)**	**QTY**	**REMARKS**
Measurement Recorded On:			13.06.2024				
		1	10.00			10.00	
					Total Quantity	**10.00**	**Mtrs**
					Quantity Carried to Summary	**10.00**	**Mtrs**

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YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	46	
Item Name:	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. Short point upto 3Mtr from tapping point to out let via switch (ELE SR 2023-24 Page-5, Item-2.1.1)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13.06.2024				
Short Point upto 3mtr							
		5				5.00	
					Total Quantity	**5.00**	**Points**
					Quantity Carried to Summary	**5.00**	**Points**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	47	
Item Name:	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) (ELE SR 2023-24 Page-5, Item-2.1.2)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18.06.2024				
Medium Point Above 3m to 6m							
		5				5.00	
					Total Quantity	**5.00**	**Points**
					Quantity Carried to Summary	**5.00**	**Points**

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BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	48	
Item Name:	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. a) Short point up to 3Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.1)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18.06.2024.				
Short Point up to 3mtr							
		5				5.00	
					Total Quantity	**5.00**	**Points**
					Quantity Carried to Summary	**5.00**	**Points**

Asst. Executive Engineer
Yelahanka Sub. Divisor
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Asstistant Engineer
BBMP-Bangalore

Asst. Executive Engineer
BBMP-Bangalore

BHURAT BENGALURU MAHANAGAR PALIKE

YELAHANKA DIVISION , YELAHANKA ZONE

Name of the work : Construction of Additional Class Rooms at Govt. Primary School at Ward No 01.

Measurement Sheet

1st and Final

Item No.	49	
Item Name:	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0sqmm (Earthwire) FRLS multistrand copper PVC insulated multi strand copper wire copper PVC insulated multi strand 2x1.5Sqmm copper wire (confirming to IS-694:and latest amendments) without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box (ELE SR 2023-24 Page-5, Item-2.2.2)	

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			18.06.2024				
Medium Point 3m to 6m							
		5				5.00	
					Total Quantity	**5.00**	**Points**
					Quantity Carried to Summary	**5.00**	**Points**

Ramalanjeeval

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

02/08/2024

Asstistant Engineer
BBMP-Bangalore

Asst. Executive Engineer
BBMP-Bangalore